

Message Text

CONFIDENTIAL

PAGE 01 STATE 058096

62

ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NSAE-00 TRSE-00 EUR-12

ERDA-05 ISO-00 EA-06 ACDA-05 /036 R

DRAFTED BY COMMERCE-FWILDER:ERS

APPROVED BY EB/ITP/EWT:RWPRACHT

DEFENSE-LJAMES

COMMERCE-RDIXON

RPE

----- 060868

P 142232Z MAR 75

FM SECSTATE WASHDC

TO USMISSION OECD PARIS PRIORITY

C O N F I D E N T I A L STATE 058096

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW - IL 1631 - MAGNETIC
MATERIALS

REF: OECD PARIS 6156

1) W.S. EBERLY OF CARPENTER STEEL DOES NOT RPT NOT AGREE
THAT QUOTE CAPABILITY UNQUOTE FACTOR DISAPPEARS WITH
THE UNDERSTANDING THAT PERMEABILITY IS ALWAYS DETERMINED
ON QUOTE ANNEALED UNQUOTE MATERIAL, AND CITES AS SPECIFIC
EXAMPLE OF CONCERN THEIR PRODUCT HYMU 800 HAVING A
PUBLISHED MU-SUBZERO VALUE OF 80,000 GAUSS-OERSTEDS. THIS
VALUE IS OBTAINED AT AN ANNEALING TEMPERATURE OF 1180
CENTIGRADE, BUT FOR CERTAIN OF THEIR CUSTOMERS THE
ANNEALING TEMPERATURE IS DROPPED TO 970 DEGREES WHICH
REDUCES MU-SUBZERO TO ABOUT 35,000 GAUSS-OERSTEDS BUT
GIVES A MATERIAL BETTER SUITED FOR THEIR PARTICULAR END
CONFIDENTIAL

CONFIDENTIAL

PAGE 02 STATE 058096

USAGE.

2) ALSO OF CONCERN IS THE FACT THAT SHEET FORMS OF THIS SAME ALLOY IN THICKNESS OF 3 MILS OR LESS ACHIEVE A MAXIMUM OF 65,000 GAUSS-OERSTEDS FOR MU-SUBZERO EVEN WHEN ANNEALED AT 1180 DEGREES. A SIMILAR REDUCTION IN MU-SUBZERO IS CHARACTERISTIC OF SHEET THICKNESS GREATER THAN 100 MILS.

3) EBERLY BELIEVES THAT AT VERY LEAST THE SOU OR MOU SHOULD DEFINE ANNEALING CONDITIONS IN TERMS OF ATMOSPHERE, TEMPERATURE, TIME AT TEMPERATURE AND RATE OF COOLING. HE FURTHER BELIEVES THAT MU-SUBZERO SHOULD BE SPECIFIED D-C, NOT RPT NOT A-C, AND THAT ITS MEASUREMENT BE MADE AT A FLUX DENSITY (B) OF 40 GAUSS OR LESS. IN THIS LATTER RESPECT HE NOTES THAT THE MAGNETIZING FORCE OF 0.4 AMPERE-TURNS PER METER USED BY TELECON IS EQUIVALENT TO AN H VALUE OF 5 MILLI-OERSTEDS IN THE PERMEABILITY EQUATION $\mu = B/H$, AND THAT THE CORRESPONDING VALUE FOR B WAS THEREFORE 700 GAUSS WHICH WOULD COME RELATIVELY HIGH ON THE STEEPEST SLOPE OF PERMEABILITY CURVE.

4) CURRENT IEC STANDARDS NOT RPT NOT AVAILABLE NOR DO WE HAVE READY ACCESS TO ASTM A-596. WILDER WILL OBTAIN ONE OR BOTH ASAP AND HAS ALREADY ARRANGED WITH EBERLY TO GET LATEST DATA ON HYMU MATERIALS. INGERSOLL

CONFIDENTIAL

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: ELECTRONIC EQUIPMENT, STRATEGIC TRADE CONTROLS, EXCEPTIONS LIST
Control Number: n/a
Copy: SINGLE
Draft Date: 14 MAR 1975
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: GarlanWA
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1975STATE058096
Document Source: CORE
Document Unique ID: 00
Drafter: FWILDER:ERS
Enclosure: n/a
Executive Order: X1
Errors: N/A
Film Number: D750090-0672
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1975/newtext/t19750348/aaaabrbs.tel
Line Count: 87
Locator: TEXT ON-LINE, ON MICROFILM
Office: ORIGIN COME
Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators: n/a
Previous Classification: CONFIDENTIAL
Previous Handling Restrictions: n/a
Reference: 75 OECD PARIS 6156
Review Action: RELEASED, APPROVED
Review Authority: GarlanWA
Review Comment: n/a
Review Content Flags:
Review Date: 14 MAY 2003
Review Event:
Review Exemptions: n/a
Review History: RELEASED <14 MAY 2003 by ElyME>; APPROVED <09 JUN 2003 by GarlanWA>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
05 JUL 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: COCOM LIST REVIEW - IL 1631 - MAGNETIC MATERIALS
TAGS: ESTC, COCOM
To: OECD PARIS
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006